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**Name of Organization:** University of Wisconsin-Extension

**Type of Organization:** College or University

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**Project Title:** P2 Assistance to Small POTWs

**Project Category:** Pollution Prevention and Reduction - BNS

**Rank by Organization (if applicable):** 0

**Total Funding Requested (\$):** 60,950 **Project Duration:** 2 Years

**Abstract:**

Small villages, towns and cities provide wastewater services (Publicly Owned Treatment Works -POTW) to local industrial and commercial facilities as well as residential homes. Unlike large systems these communities do not have industrial pretreatment programs in place to monitor industry and are susceptible to upset conditions (due to small volumes of wastewater) generated from unknown events not only from the industrial sector, but commercial and residential customers as well. Additionally, new regulatory restrictions on effluents and growth patterns impact the ability of these local POTWs to meet effluent limits. This program is designed to assist small POTWs to meet effluent guidelines by providing pollution prevention assistance to their constituents. It will also improve the performance of the affected companies and increase cooperation between businesses and POTWs.

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**Geographic Areas Affected by the Project**

**States:**

<input type="checkbox"/> Illinois	<input type="checkbox"/> New York
<input type="checkbox"/> Indiana	<input type="checkbox"/> Pennsylvania
<input type="checkbox"/> Michigan	<input checked="" type="checkbox"/> Wisconsin
<input type="checkbox"/> Minnesota	<input type="checkbox"/> Ohio

**Lakes:**

<input checked="" type="checkbox"/> Superior	<input type="checkbox"/> Erie
<input type="checkbox"/> Huron	<input type="checkbox"/> Ontario
<input checked="" type="checkbox"/> Michigan	<input type="checkbox"/> All Lakes

**Geographic Initiatives:**

☐ Greater Chicago   ☐ NE Ohio   ☐ NW Indiana   ☐ SE Michigan   ☐ Lake St. Clair

**Primary Affected Area of Concern:** Not Applicable

**Other Affected Areas of Concern:** Fox River/Green Bay WI  
Menominee River, WI

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***For Habitat Projects Only:***

**Primary Affected Biodiversity Investment Area:**

**Other Affected Biodiversity Investment Areas:**

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**Problem Statement:**

There are approximately 550 small POTWs (serving communities of less than 10,000 people) in the state of Wisconsin. These facilities have limited resources to monitor and treat effluents coming into their system. They can experience periodic upsets from upstream wastewater sources resulting in effluents that do not meet discharge standards. Sources of contaminants are often unknown, and local governments usually do not have the expertise to help their industrial customers.

**Proposed Work Outcome:**

UW-Extension hopes demonstrate that though a comprehensive effort to reach out to industrial, commercial and residential sources the problems can be significantly mitigated. Though direct assistance and education, pollution prevention techniques will be used to cost-effectively reduce waste, eliminating or reducing the need for expensive wastewater treatment expansions. This proposal will be part of state-wide effort to outreach to small POTWs. Money from this proposal will be used to work in watersheds draining into the Great Lakes. A minimum of 6 small towns, which are experiencing problems in meeting effluent limits, in the Great Lakes watersheds will receive the following outreach program:

- 1) Total waste reduction assessments to 75% of the industries served by the POTWs, all industrial sources of wastewater will be visited and those willing to participate in the program will receive a full waste assessment, not just wastewater. Waste is often indicative of inefficient manufacturing processes, through the use of the Manufacturing Extension Partnerships manufacturers should see improved performance as a result of these assessments. We estimate approximately 30-40 manufacturers will be visited.
- 2) Commercial sources of wastewater (cleaners, car washes, automotive repair, etc.) will receive visits and be given handouts on proper waste disposal techniques for these sectors. We estimate between 60 - 120 small commercial firms will receive sector specific P2 information.
- 3) Communication on proper disposal of household hazardous wastes to residential customers, in the form of a mailing from the participating community utility.
- 4) Additional laboratory testing to identify particular problems will be cost shared with the community to focus additional resources.

At the end of the project, the success of the effort will be measured by monitoring improved performance of the POTW, as well as surveys to industry and commercial facilities as to practices adopted as a result of the outreach program.

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**Project Milestones:****Dates:**

Project Start	07/2000
Identify Candidate Communities	08/2000
Gather factsheets on typical problems	08/2000
Outreach to Local Governments	09/2000
Assess Problem areas first POTWs	10/2000
Assess & Educate Sources for first POTW	11/2000
Evaluate Impact	06/2001
Project End	06/2001

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☐ Project Addresses Environmental Justice

**If So, Description of How:**

☒ Project Addresses Education/Outreach

**If So, Description of How:**

Though county agents of UW-Extension, materials relating to household hazardous waste and their proper disposal will be sent out to the affected communities. The importance of these materials will be related to the fact that their POTW is experiencing difficulties that could result in fines or expanding capacity that would impact the fees and/or taxes they pay. A similar outreach effort will be directed at commercial facilities that generate wastewater.

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**Project Budget:**

	<b>Federal Share Requested (\$)</b>	<b>Applicant's Share (\$)</b>
<b>Personnel:</b>	30,000	3,000
<b>Fringe:</b>	10,000	1,000
<b>Travel:</b>	1,000	1,000
<b>Equipment:</b>	0	0
<b>Supplies:</b>	2,000	1,000
<b>Contracts:</b>	10,000	0
<b>Construction:</b>	0	0
<b>Other:</b>	0	0
<b>Total Direct Costs:</b>	53,000	6,000
<b>Indirect Costs:</b>	7,950	0
<b>Total:</b>	60,950	6,000
<b>Projected Income:</b>	0	0

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**Funding by Other Organizations (Names, Amounts, Description of Commitments):**

This is part of statewide effort to support POTWs throughout the state. Over the two years of the project we expect to visit 15-20 communities in the state with a minimum of 6 being in watersheds draining into the Great Lakes. The proportion dedicated to Great Lakes watersheds will be at least \$66,000. Additional resources will come from the Wisconsin Manufacturing Extension Partnership (WMEP), approximately \$60,000 for outreach to manufacturers and an undetermined amount from Wisconsin Department of Natural Resources (DNR). The University of Wisconsin-Extension will support efforts from its network of county staff and the Small Business Development Center (SBDC).

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**Description of Collaboration/Community Based Support:**

UW-Extension, Community Natural Resource and Economic Development will be the lead organization providing effort from SHWEC, county agents and the SBDC program. Support from the Wisconsin Department of Natural Resources will come from working with wastewater engineers and sector specialists. Other organizations that will be used are the Wisconsin Rural Water Association and the Wisconsin Wastewater Operators Association. The WMEP and Northwest Wisconsin Manufacturing Outreach Center (NWMOC) are the national manufacturing extension partnership programs in Wisconsin, they will provide additional resource to help the manufacturers encountered during the program look for ways to become more efficient.